

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/004382

**A. CLASSIFICATION OF SUBJECT MATTER**  
Int.Cl<sup>7</sup> C12N15/00, A01H5/00, C07K14/605

According to International Patent Classification (IPC) or to both national classification and IPC

## **B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
Int.Cl<sup>7</sup> C12N15/00, A01H5/00, C07K14/605

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
SwissProt/PIR/GeneSeq, Genbank/EMBL/DDBJ/GeneSeq, BIOSIS, MEDLINE, WPIDS

## **C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,A	XUE, GP. et al., Selectable marker-free transgenic barley producing a high level of cellulase (1,4-beta-glucanase) in developing grains, Plant.Cell.Rep., 2003, July, Vol.21(11), pages 1088 to 1094	1-18
Y1	PATEL, M. et al., Transgenic barley expressing a fungal xylanase gene in the endosperm of the developing grains. Molecular Breeding, 2000, Vol.6, pages 113 to 123	1-18
Y1	SOJIKUL, P. et al., A plant signal peptide-hepatitis B surface antigen fusion protein with enhanced stability and immunogenicity expressed in plant cells.Proc.Natl.Acad.Sci. USA., 04 March, 2003 (04.03.03), Vol.100(5), pages 2209 to 2214	1-18

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search  
25 May, 2004 (25.05.04)

Date of mailing of the international search report  
08 June, 2004 (08.06.04)

Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y1	YANG, D. et al., Expression of the REB transcriptional activator in rice grains improves the yield of recombinant proteins whose genes are controlled by a Reb-responsive promoter. Proc. Natl. Acad. Sci. USA., 25 September, 2001 (25.09.01), Vol. 98(20), pages 11438 to 11443	1-18
Y1	HORVATH, H. et al., The production of recombinant proteins in transgenic barley grains. Proc. Natl. Acad. Sci. USA, 15 February, 2000 (15.02.00), Vol. 97(4), pages 1914 to 1919	1-18
Y2	EBINUMA, H. et al., Selection of marker-free transgenic plants using the isopentenyl transferase gene. Proc. Natl. Acad. Sci. USA., 18 March, 1997 (18.03.97), Vol. 94(6), pages 2117 to 2121	1-18
Y2	Koichi SUGITA et al., "Keitai Henka de Marker Free Kumikae Shokubutsu o Senbatsu", Bioscience & Industry, 1997, Vol. 55(3), pages 210 to 212	1-18
A	WO 01/55213 A (Eli Lilly and Co.), 02 August, 2001 (02.08.01), & CA 2396920 A & AU 3273501 A & EP 1257577 A & BR 107837 A & HU 204281 A & JP 15-523366 A	19-22
A	JP 5-506427 A (BUCKLEY, Douglas, I.), 22 September, 1993 (22.09.93), & EP 512042 A & DE 69129226 A & CA 2073856 A & WO 91/11457 A & US 5545618 A & AT 164852 A & DK 512042 A & ES 2113879 A & JP 13-151798 A & JP 15-192698 A	19-22